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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,462	04/15/2004	Cho Tsung Chieh	3744-043931	8317

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Webb Ziesenheim Logsdon Orkin & Hanson, P.C.
700 Koppers Building
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Pittsburgh, PA 15219-1818

EXAMINER

NGUYEN, LAUREN

ART UNIT	PAPER NUMBER
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2871

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/825,462

Applicant(s)

CHIEH, CHO TSUNG

Examiner

Lauren Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11-13 is/are rejected.
- 7) ☒ Claim(s) 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

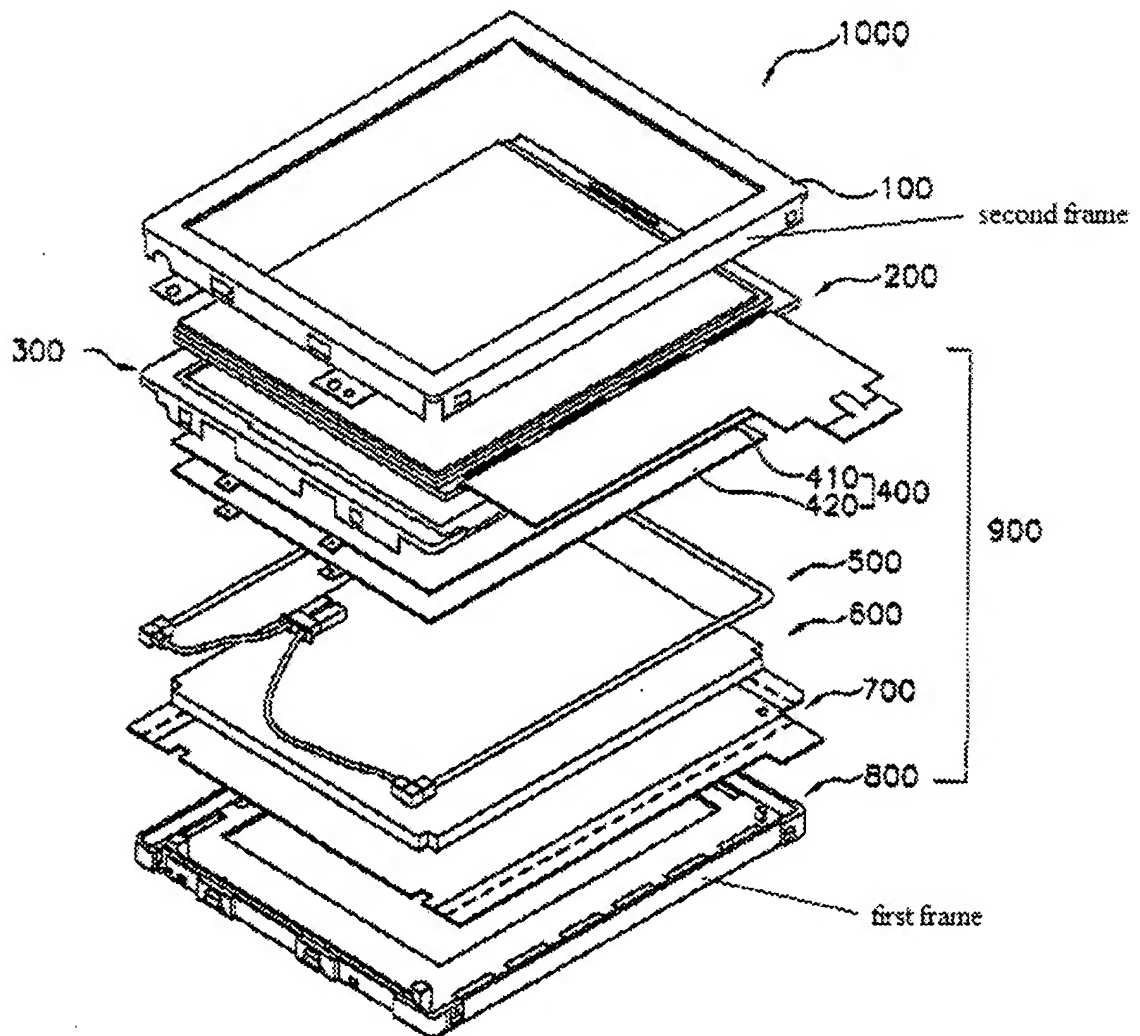
3. **Claims 1-4-7, 9, and 11-13** are rejected under 35 U.S.C. 102(b) as being anticipated by **Lee et al. (U.S. Publication Number 2003/0043314)**.

1. With respect to **claim 1**, as shown in figures 1-7, **Lee et al.** discloses a liquid crystal display module, comprising:

- a liquid crystal display body (200, figure 1);
- a base (800) having a first frame (810-816);
- a cover (100) having a second frame for covering said base through an engagement between said first frame and said second frame (see the drawing below);
- a plurality of mounting openings (121-126) mounted on an outer wall of said second frame;
- a plurality of indentations (127-128) positioned at a bottom surface of said second frame;
- a plurality of protrudent elements (871a-876a) mounted on an outer wall of said first frame and having positions corresponding to those of said plurality of mounting openings

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- for being engaged with said plurality of mounting openings so as to secure said engagement between said first frame and said second frame (see at least paragraph 0079, lines 8-18 and paragraph 0080, lines 1-6); and
- a plurality of blocking elements (878-879) mounted at a bottom surface of said first frame and having positions corresponding to those of said plurality of indentations for preventing said bottom surface of said second frame from being pressed over said bottom surface of said first frame (see at least paragraph 0080, lines 6-11).



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4. With respect to **claim 2**, as shown in figures 1-7, **Lee at al.** discloses said liquid crystal display body (200) is mounted inside a space constructed by said base (800) and cover (100).

5. With respect to **claim 3**, as shown in figures 1-7, **Lee at al.** discloses upper surfaces of said plurality of protrudent elements (871a-876a) are slant flats (see the drawing below) so as to help said plurality of protrudent elements to protrude through said plurality of mounting openings (121-126) when said first frame is engaged with said second frame.

6. With respect to **claim 4**, as shown in figures 1-7, **Lee at al.** discloses bottom surfaces of said plurality of protrudent elements (871a-876a) are flat surfaces so as to prevent said first frame from being disengaged from said second frame (see the drawing below).

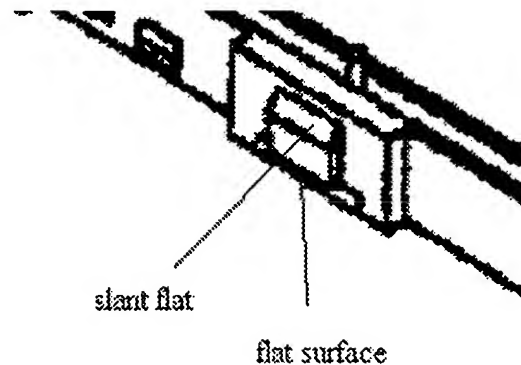
7. With respect to **claim 5**, as shown in figures 1-7, **Lee at al.** inherently discloses said plurality of mounting openings (121-126) has sizes larger than those of said plurality of protrudent elements (871a-876a) so as to help said engagement between said first frame and said second frame.

8. With respect to **claim 6**, as shown in figures 1-7, **Lee at al.** discloses said plurality of protrudent elements (871a-876a), said blocking elements (878-879), said plurality of mounting openings (121-126), and said plurality of indentations (127-128) are mounted on an outer wall of said liquid crystal display module.

9. With respect to **claim 7**, as shown in figures 1-7, **Lee at al.** inherently discloses said first frame (810-816), said plurality of protrudent elements (871a-876a), and said plurality of blocking elements (878-879) are formed integrally.

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10. With respect to **claim 9**, as shown in figures 1-7, **Lee at al.** discloses said plurality of protrudent elements (871a-876a) have horizontal positions higher than those of said blocking elements (878-879, see the drawing below).



11. With respect to **claim 11**, as shown in figures 1-7, **Lee at al.** discloses said liquid crystal display body comprises a backlight module (900), a liquid crystal assembly (200), a printed circuit board (figure 18, see at least paragraph 0074, lines 8-10), and a display panel so as to perform a display function (see at least paragraph 0061, lines 1-4).

12. With respect to **claim 12**, as shown in figures 1-7, **Lee at al.** discloses said liquid crystal display body is selected from one group consisting of a twisted nematic (TN), a super twisted nematic (STN), and a thin film transistor (TFT) (see at least paragraphs 0007 and 0008).

13. With respect to **claim 13**, as shown in figures 1-7, **Lee at al.** discloses a liquid crystal display module, comprising:

- a liquid crystal display body (200, figure 1);
- a base (800) having a first frame (810-816);
- a cover (100) having a second frame for covering said base through an engagement between said first frame and said second frame (see the first drawing);

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- a plurality of mounting openings (121-126) mounted on an outer wall of said second frame; and
- a plurality of protrudent elements (871a-876a) mounted on an outer wall of said first frame and having positions corresponding to those of said plurality of mounting openings for being engaged with said plurality of mounting openings so as to secure said engagement between said first frame and said second frame (see at least paragraph 0079, lines 8-18 and paragraph 0080, lines 1-6).

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. **Claim 8** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Lee et al. (U.S. Publication Number 2003/0043314)** in view of **Yeager et al. (U.S. Patent Number 6,002,582)**.

16. With respect to **claim 8**, **Lee et al.** discloses the limitations as shown in the rejection of **claim 1** above. **Lee et al.** does not disclose said plurality of protrudent elements and said plurality of blocking elements are positioned on said first frame alternately.

However, **Yeager et al.**, in at least figure 3, discloses said plurality of protrudent elements (46a) and said plurality of blocking elements (60) are positioned on said first frame alternately.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the protrudent elements and the blocking elements of **Lee et al.** with the teaching of

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Yeager et al. because such modification would secure the connections between the cover and the base of LCD devices.

Allowable Subject Matter

17. **Claim 10** is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

18. The following is a statement of reasons for the indication of allowable subject matter:

19. The specific limitations of "*said bottom surfaces of said plurality of protrudent elements have same horizontal positions as upper surfaces of said blocking elements*" in the combination as claimed in claim 10 are not provided nor made obvious by the prior art of record. **Claim 10** would therefore be allowable if rewritten in independent form.

20. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hasegawa et al. (U.S. Patent Number 5,815,224) discloses a liquid crystal device having frame portions reduced in area to reduce the size and weight of the device.

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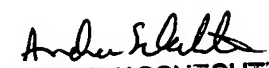
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lauren Nguyen whose telephone number is (571) 270-1428. The examiner can normally be reached on M-F, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lauren Nguyen

February 26, 2007


ANDREW SCHLICHTER
PRIMARY EXAMINER